OPTIONAL FORM NO. 10
5010-104

UNITED STATES GOVERNMENT

Memorandum

EP 65-290

25X1A TO : The Files: [redacted] Task Order 7 DATE: 29 September 1965

25X1A FROM : [redacted]

25X1A SUBJECT: Inspection Report No. 10 - OS-12 with [redacted] 25X1A5a1

1. Project Description:

The OS-12 is a compact, stable variable frequency oscillator. It has a frequency range of 2 - 30 Mc/s without any multiplication, spurious output of -65 db, and an accuracy of ±1000 cps. The output power (3.0 V peak to peak across 200 ohms) is 5.0 mw and the input power at 12 V (±10%) is 360 mw. The approximate size of the OS-12 is 4" x 2" x 1".

2. Contractual Information:

a. Initial Cost: $40,791.00
b. Request for Procurement Action: 18 September 1964
c. Initiation Date: 28 October 1964
d. Completion Date: 21 June 1965
e. Deliverable Items: One engineering model - 28 May 1965; Monthly Reports - on/before first of each month; Equipment Instruction Manuals - on/before 21 June 1965; Final Engineering Report - on/before 21 June 1965; one set reproducible specifications and drawings and additional 5 copies of each - on/before 21 June 1965

3. Date of Meeting: 23 September 1965

25X1A 4. Place of Meeting: [redacted]

5. Persons Attending:

	Agency	Non-Agency
25X1A9a	[redacted]	[redacted] 25X1A5a1

6. Contractor's Performance. . .

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6. Contractor's Performance:

a. On schedule and expected to remain so: No
b. Within obligated funds and expected to remain so: No
c. Satisfactory technical progress: Yes

7. Project Status:

The status of the OS-12 has changed little. All problems and the delay in delivery can be traced to the [redacted] flip-flop flat-packs. 25X1A

25X1A In review, the [redacted] flat-pack was used because of its ability to switch at a 6 Mc/s rate on very little power. These flip-flops have
25X1A been produced for some time [redacted] in TO-5 cans, which have a record of being highly reliable. There was little reason to believe that the flat-packs would not be equally reliable and, therefore, offer a considerable size reduction. The production process, however, did not provide an adequate seal.

Design of the OS-12 was completed using inadequately sealed flat-packs. These flat-packs, in the meantime, have become so level sensitive that acceptance testing cannot be completed. Levels can be changed and a short period of operation obtained but only until the required levels change again. No more work will be focused on the OS-12 until
25X1A [redacted] can provide the desired flat-packs. [redacted] assures their cus- 25X1A
tomers that they now have a fix and will have flat-packs available by
25X1A5a1 the end of October. [redacted] was the first to discover the problem and are "number one" in line for the new packs.

The OS-12 was outwardly operating very well with the RT-49P2; but, until the flat-packs become available, an objective evaluation is impossible.

25X1A9a

[redacted]

Distribution:
R&D Subject File
Engineering Section, CB/PD/OL
Monthly (2)
R&D Lab
OC-OS
OC-E/ESB
EP Chrono

25X1A9a OC-E/R&D-EP/[redacted]/chw (29 September 1965)